

**21.** The system according to claim **1**, wherein the facility gateway further comprises a pump application configured to receive the plurality of continuous quality improvement messages for relay to the continuous quality improvement listener.

**22.** The system according to claim **21**, wherein the pump application relays the plurality of continuous quality improvement messages to the continuous quality improvement listener when the continuous quality improvement listener is subscribed to a respective topic of the pump application.

**23.** The system according to claim **1**, wherein the medical pump stores the plurality of continuous quality improvement messages generated by the medical pump in an internal buffer when communication with the facility gateway is unavailable.

**24.** The system according to claim **1**, wherein the plurality of continuous quality improvement messages include at least one pump event.

**25.** The system according to claim **1**, wherein the plurality of continuous quality improvement messages include at least one clinical event.

**26.** The system according to claim **1**, wherein the plurality of continuous quality improvement messages communicates with the facility gateway using Simple Object Access Protocol ("SOAP").

**27.** The system according to claim **26**, wherein the plurality of continuous quality improvement messages communicates with the facility gateway using the Simple Object Access Protocol ("SOAP") over web services addressing.

**28.** The system according to claim **1**, wherein the medical pump includes a device gateway communication manager process configured to communicate the plurality of generated continuous quality improvement messages to the device gateway.

**29.** The system according to claim **28**, wherein the a device gateway communication manager is an autonomous system configured to poll the device gateway for an update.

**30.** The system according to claim **28**, wherein the a device gateway communication manager establishes a direct connection to the device gateway bypassing any wifi network.

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